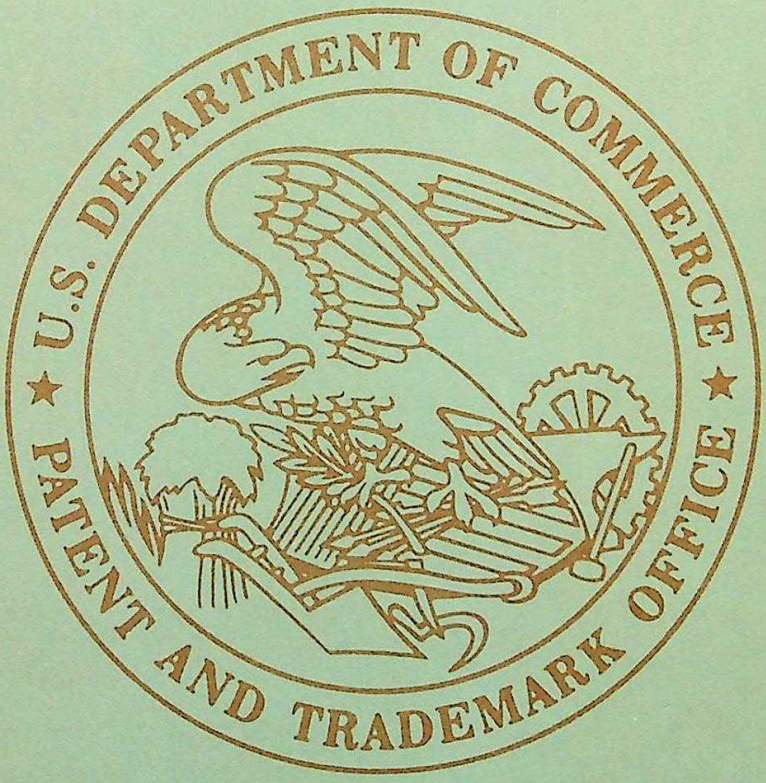
Florence D. Hoffman

COMMISSIONER OF PATENTS AND TRADEMARKS

ANNUAL REPORT

FISCAL YEAR 1977



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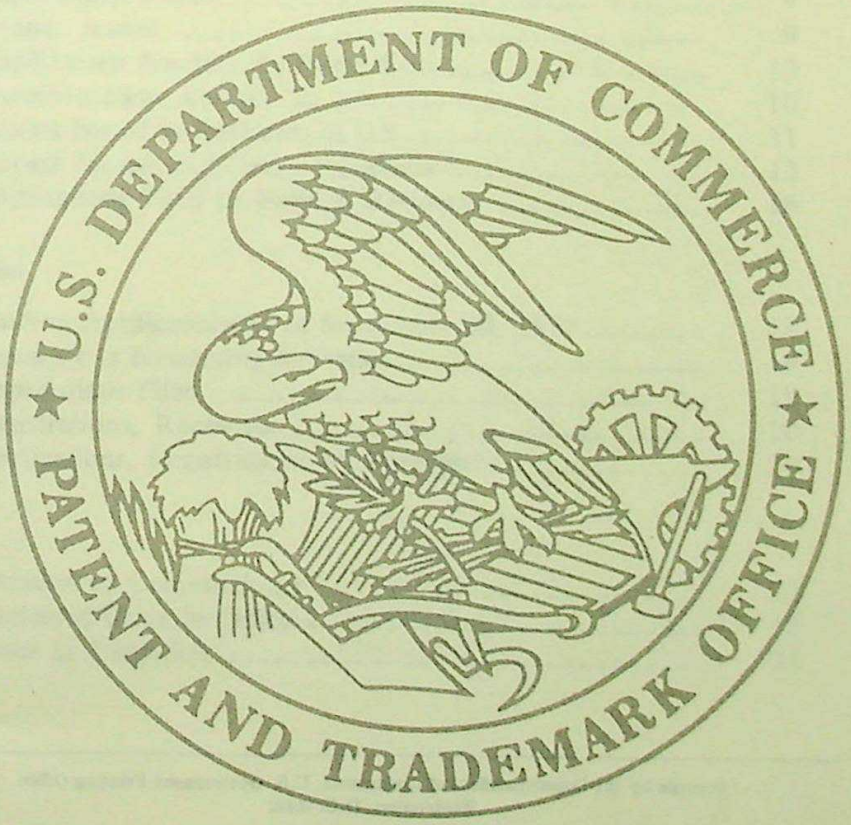
U.S. DEPARTMENT OF COMMERCE/PATENT AND TRADEMARK OFFICE



U.S. DEPARTMENT OF COMMERCE
Juanita M. Kreps, Secretary
Patent and Trademark Office
Lutrelle F. Parker, Acting Commissioner of
Patents and Trademarks
March 1978

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COMMISSIONER'S ANNUAL REPORT

FISCAL YEAR 1977

Mission

The Patent and Trademark Office has three primary functions: (1) to examine patent applications and grant patents; (2) to collect, classify and disseminate technology disclosed in patents; and (3) to examine trademark applications and register trademarks. The first patent law was enacted in 1790. It was enacted under the authority of Article 1, Section 8 of the Constitution "to promote progress of . . . useful arts, by securing for limited times to . . . inventors the exclusive right to their . . . discoveries." The Patent and Trademark Office has been a bureau in the Department of Commerce since 1925.

The patent system is designed to encourage technological progress. It provides incentives for making inventions, investing in research and development, commercializing inventions, and disclosing new inventions to the public instead of keeping them secret. The Office also administers the Federal trademark registration statute. The trademark statute is intended to protect business investments and help avoid confusion or deception of consumers, by providing for registration of marks used in commerce subject to Federal regulation (usually interstate or foreign commerce).

The Office examines patent applications and issues patents; publishes scientific and technical information contained in patents; maintains public search files of patents and literature; sells copies of patents and other documents to the public; and performs various other functions to stimulate new technology. Similar functions are carried out under the trademark law. The Office registers trademarks, service marks, certification marks and other special kinds of marks that qualify under the Federal trademark system.

Highlights of Report

- Major changes were adopted in the patent examining rules of procedure.
- Regulations were proposed for operating under the Patent Cooperation Treaty.
- The average pendency time for patent applications was reduced to 18.9 months.
- Quality reviewers found unpatentable claims in about 5 percent of allowed patent applications reviewed.
- The patent depository library system was expanded by adding libraries in Birmingham, Houston and Seattle.
- Filings of applications for trademark registration were up 20 percent.
- Trademark applications received a first examination within three months of filing.
- New reproduction equipment improved service on orders for copies of patents.
- Congress appropriated funds for a new computer for the Office in 1978.
- Five inventors were inducted into the National Inventors Hall of Fame.

Patent Examining

Major changes were made in the rules governing patent examining and appeal procedures. The rule changes were adopted in order to improve the quality and reliability of issued patents. One of the new rules enabled patent owners, through the filing of reissue applications, to obtain rulings on the validity of their patents in light of additional prior art. Another key rule defined the duty of patent applicants to disclose to the Patent and Trademark Office information they are aware of which might affect the patentability of their applications. A new rule encouraged the Office's examiners to prepare written statements of their reasons for allowing patents to issue when the public record would not otherwise reveal the reasons.

Under the new rules inventors who cannot understand English must make the required oath for a patent application in a language that they do understand. The new rules also require Office decisions with important precedent value to be made available to the public. The rules modify proceedings before the Board of Appeals to help avoid the issuance of invalid patents.

In order to prepare for the Patent Cooperation Treaty, regulations were proposed during 1977 to set up new procedures for processing the international applications that will be filed under the treaty. It was expected that the treaty would come into force in mid-1978.

Revised procedures were established for preparing written records of interviews between the Office's examiners and patent applicants. Also, procedures were adopted to provide better written records of the patent searches performed by examiners.

The quality review program under which a sample of patent applications ready to issue is reviewed was continued into its fourth year. About 4 percent of all applications allowed were reviewed. Approximately 5 percent of the applications reviewed were found to be claiming subject matter which the reviewers considered unpatentable.

Patent examiners disposed of 102,263 applications during FY 1977, excluding designs. New application receipts, without designs, were 102,587. The pendency time of an average patent application in the Office was 18.9 months at the end of the fiscal year, down from 19.4 months at the end of 1976. The 18.9 month figure was the shortest pendency time in several decades. During the fiscal year, 96 energy-related applications and 34 environment-related applications were expedited.

Documentation and Information Handling

Approximately 150,000 original U.S. patents were reclassified by subject matter in fiscal 1977. During the first full year of operation of a newly developed classification data system, over one million reclassified patents were processed into the examiner and public search files. Up-to-date classification of patents in the search files increases the reliability of issuing patents by making it easier for examiners to locate pertinent prior patents.

A mini-computer system which instantly displays the classification of a selected patent was installed in the public search room and at other locations in the Patent and Trademark Office. This system will also display the numbers of all of the patents that are classified in a selected subclass. A program was instituted for replacing patents missing from the search files and for resolving discrepancies between the computerized record of patent classification and the patents actually in the search files. This program also involves adding additional references to the public search files in order to make them more nearly identical to the files used by the examiners.

Experiments with mechanized patent searching were continued. Software and microfilming work was done to prepare for updating and expansion of the experimental computer-controlled microform search system during 1978.

In 1977 three additional libraries were designated as patent depository libraries—the Birmingham Public Library, Birmingham, Alabama; the Fondren Library of Rice University, Houston, Texas; and the University of Washington Engineering Library, Seattle, Washington. This brought the number of depository libraries in the country to 25. The Office made available to all of the libraries additional documentation concerning the classification of patents. A conference was held in Washington with library representatives to consider ways of improving their effectiveness in serving the public.

The Office released the seventh in a series of publications assessing technological activity by using patent data. The seventh report analyzed domestic and international patenting patterns in general, computer memory and antipollution technologies, and sixteen areas of technology experiencing either high levels of overall patent activity or unusually heavy patenting by foreigners. The Office also prepared 70 special technology assessment reports for public and private organizations.

The Office installed the first two of three custom-built reproduction machines that should dramatically improve service on the 20,000 orders received daily for patent copies. The new equipment produces paper copies of patents at high speed from microfilm cards and automatically stacks and collates the copies.

Congress appropriated funds for a new computer for the Patent and Trademark Office with three times the on-line storage capacity of the Office's existing machine. Preparations were begun for bringing the equipment on board by mid-1978. The new computer will save money and improve the processing of patent and trademark applications. It will keep better records of the status and location of pending applications, produce notices of allowance by machine, and perform a variety of other functions.

Trademarks

Trademark examiners disposed of 36,486 applications during the fiscal year. Filings of applications for trademark registration totaled 44,539—an increase of 20 percent over the previous year. For the second year in succession, the trademark operation attained its goal of taking up the average application for its first examination within three months of filing. The Trademark Trial and Appeal Board ruled on a total of 401

cases after hearing. There were 2,496 cases pending before the Board at the end of the fiscal year.

A new computer system was installed in 1977 for updating the records in the trademark search room. The system replaced a cumbersome method of hand stamping update information on paper copies of trademark registrations. In addition, an improved system was put into operation to give information on the status and location of pending trademark applications at terminals in the trademark search room and elsewhere.

A rulemaking proposal was published concerning trademark applications filed in the United States from foreign countries. The proposed changes were consistent with the rationale of the U.S. Court of Appeals for the District of Columbia in its 1976 decision in *SCM Corp.* v. *Langis Foods Ltd.* The proposal would permit foreigners to register marks without having actually used the marks, as long as there is an intention to use them.

Legislative and International Affairs

The Office participated in an effort to revise the Paris Convention for the Protection of Industrial Property, which is the principal existing treaty on patent and trademarks. The impetus of revision came from developing countries, which believe that a relaxation of provisions of the treaty is needed to stimulate increased transfer of technology to developing countries. Socialist countries also requested revision of parts of the treaty in order to enhance the status of the inventors' certificate form of protection.

The United States and 12 other countries signed the Budapest Convention concerned with the deposit of microorganisms.

This treaty, when it takes effect, will simplify and reduce the legal uncertainties of microorganism deposits needed for the full disclosure of microbiological inventions in patent applications. Only a single deposit will be needed to secure a patent in all of the countries adhering to the convention.

The Patent and Trademark Office and the Department of Agriculture participated in meetings of the International Union for the Protection of New Plant Varieties. Substantial progress was made in removing obstacles to United States membership in that treaty. The Nice Agreement on international trademark classification was revised at a diplomatic conference in Geneva, Switzerland in May 1977. The revision was signed by the United States and 13 other countries.

The Patent and Trademark Office participated with the Departments of State and Justice in UNCTAD (United Nations Conference on Trade

and Development) negotiations on an international code of conduct on transfer of technology. The Office also continued its training assistance to developing countries. Trainees and government officials from a number of countries visited the Office.

For the first time in a decade there was no bill introduced in Congress for general revision of the patent laws.

The Office began collecting data on the effects of the new patent examining rules, in order to assess whether the new rules might eliminate the need for some of the revisions in the patent statute proposed in recent years.

Other Activities

The backlog of pending appeals at the Board of Appeals was reduced by 255. The number of appeals pending at the end of the year was 3,900. The Board of Patent Interferences had 66 cases awaiting final hearing or decision at the end of the year.

The fifth annual National Inventors Day was observed and five distinguished inventors were inducted into the National Inventors Hall of Fame: George Eastman, Lee DeForest, Edwin H. Land, Charles P. Steinmetz and Vladimir K. Zworykin. This brought the number of inductees to 28. The Hall of Fame is co-sponsored by the Patent and Trademark Office and the National Council of Patent Law Associations.

Operating Costs and Income

Funds available to the Patent and Trademark Office for the fiscal year ending September 30, 1977 were $89,508,000, consisting of $89,400,000 regular appropriations and $108,000 received as reimbursements. The total amount obligated during the year was $88,077,000 or 99 percent of new obligational authority. Operating costs for the year on the accrual basis of accounting were $87,506,000.

Compensation and benefits for an average 2,821 employees accounted for $65,423,000 or 75 percent of total operating costs. Printing and reproduction costs amounted to $10,376,000 (12 percent) and other costs were $11,707,000 (13 percent).

Fees collected in fiscal year 1977 and deposited in the general treasury totalled $27,980,000. Balances in customer deposit accounts as of September 30, 1977, aggregated $2,203,000, an increase of $319,000 over the prior year. Fee income in 1977 was 32 percent of operating costs.

STATISTICAL DATA*

PATENTS

1. Pending Patent Applications as of September 30, 1977

	Designs	Patents including Plants, Reissues and Designs
Pre-Examination	602	15,206
Under Examination:		
Awaiting first action by examiners	6,113	46,005
Amended awaiting action by examiners	448	14,701
Awaiting response by applicant	2,386	61,673
In Interference	1	981
On Appeal	20	5,976
Total Under Examination	8,968	129,336
Post-Examination:		
Awaiting Notice of Allowance	405	6,856
Awaiting payment of Issue Fee	254	14,175
D—10's (secret cases in condition for allowances)	0	2,802
Total in Post-Examination	659	23,833
In Issue Process:		
In Patent and Trademark Office (fee paid prior to September 30)	312	3,962
With printer	540	8,938
Total in Issue Process	852	12,900
Total in Office	11,081	181,275

* All years are fiscal years unless stated otherwise.

2. Summary of Patent Examining Activities

Item	1976	T. Q. [1]	1977	Annual Average 1968–77
Patent Applications				
Applications filed:				
General, mechanical, chemical, electrical	101,807	25,215	101,821	100,239
Plants	144	50	202	138
Reissues	438	100	564	382
Designs	6,838	1,659	7,186	5,872
Total	109,227	27,024	109,773	106,631
Applications allowed	71,784	16,949	67,800	73,130
Design applications allowed	4,593	1,116	3,950	3,888
Applications abandoned	35,119	8,080	34,463	34,841
Design applications abandoned	1,816	544	1,732	1,676
Total disposals	113,312	26,689	107,945	113,535
Patents issued: [4]				
General, mechanical, chemical, electrical	[2] 75,311	16,250	67,947	70,361
Plants	195	22	164	135
Reissues	432	97	434	308
Designs	4,779	1,314	4,260	3,660
Total	[2] 80,717	17,683	72,805	74,464
Patents withheld for non-payment of final fee (35 U.S.C. 151)	2,136	439	1,812	2,258
Pendency of average application (months) [3]	19.4	19.1	18.9	—

[1] Transition Quarter, July 1, 1976 through September 30, 1976.

[2] Under the Trial Voluntary Protest Program, in 1976 an additional 1,303 applications were published but not issued.

[3] Average pendency of patent applications between filing and issue or abandonment.

[4] Excludes withdrawn numbers.

3. Patent Applications Filed

Year	Inventions	Plants	Reissues	Designs	Total
1957	73,495	99	189	4,675	78,458
1958	76,565	129	262	4,838	81,794
1959	77,978	126	259	4,994	83,357
1960	78,995	117	219	4,567	83,898
1961	80,842	106	223	4,605	85,776
1962	84,864	131	270	4,963	90,228
1963	84,620	149	277	4,841	89,887
1964	87,482	147	207	5,067	92,903
1965	88,908	89	237	5,319	94,553
1966	93,022	103	266	5,187	98,578
1967	88,167	100	241	4,774	93,282
1968	90,252	107	304	4,889	95,552
1969	96,342	103	376	5,432	102,253
1970	100,116	113	344	5,722	106,295
1971	103,733	161	266	6,057	110,217
1972	102,663	166	293	6,358	109,480
1973	100,900	109	382	5,541	106,932
1974	103,479	109	391	4,948	108,927
1975	101,283	163	465	5,751	107,662
1976	101,807	144	438	6,838	109,227
T.Q.	25,215	50	100	1,659	27,024
1977	101,821	202	564	7,186	109,773

4. Patents Issued [1]

Year	Inventions	Plants	Reissues	Designs	Total
1957	44,819	120	163	2,375	47,477
1958	43,407	110	159	2,572	46,248
1959	52,184	128	170	2,508	54,990
1960	50,322	107	178	2,685	53,292
1961	47,222	110	160	2,488	49,980
1962	51,065	88	190	2,336	53,679
1963	53,958	114	215	2,411	56,698
1964	44,050	147	203	3,019	47,419
1965	52,914	127	204	2,979	56,224
1966	66,243	105	238	3,638	70,224
1967	70,028	102	180	2,840	73,150
1968	61,599	67	185	3,539	65,390
1969	61,957	80	201	2,991	65,229
1970	66,339	80	311	3,401	70,131
1971	[2] 70,387	77	222	3,097	[2] 73,783
1972	83,221	170	264	3,032	86,687
1973	[3] 67,552	146	274	3,441	[3] 71,413
1974	79,300	211	367	4,439	84,317
1975	[4] 70,179	155	398	3,632	[4] 74,364
1976	[4] 75,325	195	434	4,781	[4] 80,735
T.Q.	16,259	22	98	1,315	17,694
1977	67,972	164	435	4,261	72,832

[1] Includes withdrawn numbers.
[2] Does not include 1,300 voided numbers.
[3] Does not include 1,356 voided numbers.
[4] Under the Trial Voluntary Protest Program, in 1975 an additional 667 applications were published but not issued; in 1967, there were 1,303 published but not issued.

5. Patent Applications Pending [1]

Year	Total Pending [2]	Awaiting Action by Examiner [3]	Year	Total Pending [2]	Awaiting Action by Examiner [3]
1958	213,998	92,116	1968	194,087	109,509
1959	205,252	89,077	1969	[4] 196,338	103,704
1960	201,822	88,633	1970	192,575	81,548
1961	206,340	92,489	1971	190,103	64,890
1962	203,497	102,833	1972	189,177	70,477
1963	215,577	119,946	1973	175,281	64,940
1964	226,006	129,151	1974	162,447	47,411
1965	212,416	149,284	1975	146,464	41,916
1966	214,664	147,664	1976	142,379	43,776
			T.Q.	142,714	50,323
1967	205,768	136,672	1977	144,542	60,706

[1] Pending at end of period indicated. Does not include allowed applications.
[2] Includes applications in pre-examining processes.
[3] Includes cases in which Office actions were suspended under Rule 103 through 1965.
[4] Revised figure based on inventory adjustment of 4,968 to total pending, excluding allowed applications, plus category not previously counted of 2,654.

6. Documentation Activity

Activity	1974	1975	1976	T.Q.	1977
Subclasses established	3,555	1,969	3,248	1,061	3,568
Patents reclassified: [1]					
Original Patents	128,697	89,779	125,265	45,675	149,762
Cross-reference patents ..	192,912	234,252	279,986	80,806	354,298
Foreign patents	70,000	70,000	200,000	73,000	240,000

[1] Includes only those for which final processing was completed.

7. Patents Issued to Residents of United States*

States and Territories	1969	1970	1971	1972	1973	1974	1975	1976	T.Q.	1977
Alabama	264	265	330	232	296	322	221	265	75	208
Alaska	22	24	27	26	25	29	30	34	9	26
American Samoa	1	2	4	5	7	11	13	13	2	5
Arizona	314	327	388	405	491	538	436	511	109	481
Arkansas	82	101	99	88	77	102	91	102	22	102
California	6,901	6,444	7,750	6,952	7,603	7,864	6,510	7,101	1,582	6,923
Canal Zone	7	12	14	18	6	5	8	5	0	2
Colorado	444	413	546	518	640	668	595	649	143	617
Connecticut	1,774	1,663	1,918	1,685	1,763	1,873	1,612	1,752	431	1,552
Delaware	575	538	515	697	542	588	461	513	95	413
District of Columbia	214	213	248	105	81	74	88	83	20	70
Florida	833	841	1,061	992	1,052	1,166	1,059	1,085	265	1,096
Georgia	317	273	386	308	392	404	353	383	80	337
Guam	2	9	4	5	11	12	3	4	1	1
Hawaii	41	50	37	26	50	55	61	51	12	43
Idaho	71	72	90	87	123	111	99	94	22	80
Illinois	4,256	3,974	4,645	4,221	4,419	4,653	3,959	4,173	904	3,751
Indiana	1,187	1,158	1,432	1,252	1,297	1,374	1,172	1,177	269	1,069
Iowa	376	377	475	445	450	494	386	446	91	451
Kansas	285	307	306	312	358	404	362	351	67	302
Kentucky	376	318	423	327	323	336	343	323	67	281
Louisiana	311	318	389	406	348	518	357	404	89	352
Maine	51	73	94	82	63	76	76	61	16	52
Maryland	1,141	937	1,244	1,082	1,066	1,124	913	1,072	219	861
Massachusetts	2,289	2,153	2,716	2,445	2,320	2,421	2,062	2,192	474	1,860
Michigan	3,160	2,831	3,386	3,156	3,091	3,215	2,832	2,691	621	2,474
Minnesota	1,153	1,063	1,157	1,015	1,070	1,230	1,029	1,082	220	968
Mississippi	80	60	86	70	85	88	103	100	20	74
Missouri	866	689	866	803	802	851	712	728	169	651
Montana	54	44	48	55	62	36	60	48	8	45
Nebraska	110	108	151	118	143	153	147	140	23	130
Nevada	59	56	81	59	68	78	92	85	19	111

7. Patents Issued to Residents of United States*—(Continued)

States and Territories	1969	1970	1971	1972	1973	1974	1975	1976	T.Q.	1977
New Hampshire	157	186	219	158	176	195	165	171	37	176
New Jersey	4,526	4,280	4,652	4,719	4,298	4,320	3,723	4,188	895	3,687
New Mexico	133	77	112	116	127	144	81	145	28	116
New York	6,003	5,693	6,453	5,978	5,874	6,120	5,015	5,109	1,119	4,737
North Carolina	540	524	617	608	579	586	535	576	138	540
North Dakota	56	38	49	37	47	53	46	45	4	44
Ohio	3,650	3,286	3,978	3,467	3,548	3,815	3,215	3,223	694	2,898
Oklahoma	823	740	863	839	743	811	747	725	171	618
Oregon	338	297	425	363	436	433	348	357	69	328
Pennsylvania	3,854	3,641	4,052	3,889	3,807	3,982	3,578	3,583	780	3,223
Rhode Island	258	236	263	240	238	247	215	217	48	209
South Carolina	240	189	270	272	261	278	259	274	49	233
South Dakota	35	52	61	40	37	39	45	48	16	43
Tennessee	451	371	401	354	403	412	399	416	82	374
Texas	1,975	1,878	2.007	2.083	2,174	2,342	2,153	2,235	501	2,063
Utah	169	167	222	233	260	267	230	242	42	225
Vermont	68	65	131	77	103	115	76	70	13	75
Virginia	683	628	764	743	756	803	644	696	164	637
Washington	494	428	575	493	538	597	530	595	126	561
West Virginia	187	172	154	148	142	166	126	162	25	162
Wisconsin	1,087	1,056	1,330	1,143	1,228	1,239	1,041	948	208	882
Wyoming	28	31	47	29	28	39	34	43	14	38
Puerto Rico	26	39	47	34	29	25	25	14	1	25
U.S. Army	0	0	7	1	2	1	0	0	0	0
U.S. Navy	3	1	1	2	0	0	0	0	0	0
U.S. Air Force	4	6	6	5	1	4	0	1	0	1
Virgin Islands	18	15	21	25	7	6	19	7	0	9
TOTAL	53,422	49,821	58,693	54,093	54,960	57,812	49,494	51,808	11,368	47,292

* Years 69–73 are calendar years and do not include reissues; 1974–77 are fiscal years and include reissues.

8. Patents Issued by the United States to Residents of Foreign Countries*

Country	1969	1970	1971	1972	1973	1974	1975	1976	T.Q.	1977
Algeria	0	1	0	1	0	0	0	1	0	0
Argentina	17	24	26	30	30	26	32	22	9	24
Australia	157	152	206	191	214	252	253	299	48	272
Austria	196	194	251	273	237	263	275	339	68	297
Bahamas	9	1	12	4	10	16	17	9	3	5
Belgium	225	234	309	321	287	345	302	337	74	306
Bermuda	3	2	4	6	4	1	3	2	0	4
Bolivia	2	8	7	6	5	4	9	6	2	0
Brazil	19	19	15	16	19	19	22	20	5	25
Bulgaria	7	9	11	10	16	17	15	27	3	36
Cameroon	0	0	0	1	0	0	0	0	0	0
Canada	1,071	1,151	1,413	1,323	1,449	1,511	1,324	1,411	330	1,388
Chile	9	2	8	4	5	6	5	7	0	2
China, Peoples Rep. of	0	0	0	0	0	0	0	0	0	2
Colombia	5	6	7	8	7	10	6	4	2	6
Congo	0	3	0	0	0	3	4	12	10	11
Costa Rica	1	0	2	0	0	1	2	8	0	0
Cuba	0	1	2	1	0	1	1	1	0	1
Cyprus	0	1	0	0	0	0	2	1	0	2
Czechoslovakia	132	122	154	110	95	105	121	110	29	109
Dahomey	0	1	0	0	0	0	1	1	0	0
Denmark	152	143	179	180	164	184	176	210	43	172
Dominican Republic	0	0	0	1	2	3	1	0	0	1
Equador	5	2	3	2	3	6	6	7	0	1
Egypt	0	0	2	3	2	3	1	4	0	1
El Salvador	5	1	1	0	1	1	1	5	0	3
Ethiopia	0	1	0	0	0	0	0	0	0	2
Finland	46	48	64	71	95	121	102	112	36	99
France	1,839	1,771	2,251	2,269	2,189	2,548	2,399	2,666	589	2,255
Germany, Dem. Rep. of	0	0	0	0	0	0	0	0	0	1
Germany, Fed. Rep. of	4,556	4,496	5,586	5,797	5,661	6,360	5,780	6,800	1,402	5,902
Greece	11	8	6	16	14	19	3	17	2	11
Guatemala	4	2	3	0	7	9	3	5	0	3
Guinea	0	0	0	0	0	1	0	0	0	1
Haiti	2	1	3	0	0	1	4	4	1	1
Honduras	5	3	1	1	2	1	0	1	0	1

8. Patents Issued by the United States to Residents of Foreign Countries*—(Continued)

Country	1969	1970	1971	1972	1973	1974	1975	1976	T.Q.	1977
Hong Kong	14	17	34	16	22	23	19	46	6	32
Hungary	22	37	38	48	46	51	64	66	16	69
Iceland	1	7	10	9	2	1	5	6	0	3
India	18	16	10	19	21	20	17	14	7	16
Indonesia	0	1	2	2	8	10	6	5	1	0
Iran	1	4	4	3	5	4	4	5	0	3
Ireland	16	13	33	21	31	25	26	34	7	21
Israel	63	46	54	55	96	94	95	119	23	97
Italy	574	596	751	865	791	900	762	866	198	810
Ivory Coast	0	0	0	0	1	1	0	0	0	1
Jamaica	0	1	0	4	1	1	1	0	0	3
Japan	2,225	2,720	4,154	5,301	5,157	5,964	5,899	7,383	1,611	6,462
Jordan	0	0	0	1	0	0	0	0	0	0
Kenya	1	4	1	0	1	0	0	2	1	1
Korea, Rep. of	0	3	3	7	5	10	8	9	4	5
Kuwait	1	0	0	0	0	0	1	0	0	0
Lebanon	2	2	4	1	1	1	7	4	0	0
Liberia	0	0	0	0	0	0	0	0	0	0
Libya	0	0	0	1	0	0	1	0	0	1
Liechtenstein	14	23	28	10	14	12	10	14	8	10
Luxembourg	2	1	5	8	6	18	13	20	3	14
Madagascar	0	1	0	0	0	0	0	0	0	0
Malaysia	0	1	0	0	0	1	0	3	1	2
Mauritania	0	1	0	0	0	0	1	0	0	0
Mexico	70	44	65	43	42	50	71	78	19	65
Monaco	4	2	5	2	2	2	9	8	1	5
Morocco	1	2	0	3	3	2	1	0	0	4
Netherlands	572	553	715	690	707	778	665	709	204	770
New Zealand	17	16	18	26	25	22	24	37	5	32
Nicaragus	2	1	3	2	2	0	1	3	1	2
Nigeria	1	1	4	0	0	0	1	1	0	1
Norway	70	71	79	94	97	97	106	110	33	113
Pakistan	1	1	0	0	0	1	0	2	0	1

8. Patents Issued by the United States to Residents of Foreign Countries*—(Continued)

Country	1969	1970	1971	1972	1973	1974	1975	1976	T.Q.	1977
Panama	0	1	2	4	0	1	5	4	1	3
Paraguay	0	0	0	1	1	0	0	0	0	1
Peru	5	6	5	5	3	1	5	8	2	6
Phillipines	4	4	7	12	14	15	7	8	1	10
Poland	31	33	31	21	25	27	32	35	5	26
Portugal	9	4	7	7	2	4	7	5	1	3
Rhodesia	3	0	5	1	0	1	2	1	0	4
Romania	21	37	35	33	25	34	21	15	4	20
Saudi Arabia	0	3	1	2	1	0	2	0	3	3
Singapore	2	0	4	4	7	9	6	4	1	3
South Africa	68	50	72	55	89	95	74	89	23	81
Soviet Union	159	218	327	355	383	444	454	435	102	399
Spain	60	61	82	65	89	99	87	105	27	114
Sri Lanka	1	0	0	0	1	1	0	0	0	2
Sudan	0	2	1	1	0	1	2	0	0	1
Sweden	682	650	849	783	793	944	939	1,118	266	1,005
Switzerland	1,078	1,124	1,291	1,326	1,351	1,580	1,354	1,603	345	1,438
Syria	0	0	0	1	0	0	0	1	0	0
Taiwan	5	7	16	8	11	17	28	29	6	49
Tanzania	3	0	3	1	0	0	0	0	0	1
Trailand	2	3	1	1	0	0	2	1	0	3
Trinidad & Tobago	1	2	3	3	3	3	3	1	0	3
Tunisia	0	0	0	1	1	0	0	0	0	1
Turkey	1	0	3	3	5	3	0	0	0	2
Uganda	0	0	0	0	0	0	1	1	0	0
United Kingdom	3,258	3,063	3,533	3,229	2,931	3,242	3,071	3,443	718	2,831
Uruguay	0	1	2	0	2	1	1	2	0	0
Venezuela	6	13	13	7	6	7	9	2	2	9
Viet Nam, Rep. of	1	0	1	2	0	1	2	1	0	1
Yugoslavia	3	6	9	6	6	8	10	5	3	7
Zambia	0	2	1	2	1	0	0	1	0	0
Total	17,573	17,872	22,850	23,810	23,344	26,464	24,821	28,909	6,315	25,513

* Years 69–73 are calendar years and do not include reissues; 1974–77 are fiscal years and include reissues.

9. United States Patent Applications Filed by Residents of Foreign Countries*

Country	1974	1975	1976	T.Q.*	1977
Algeria	1	1	0	0	2
Argentina	49	48	35	23	52
Australia	476	440	487	141	524
Austria	420	391	395	123	400
Bahamas	0	0	22	2	14
Belgium	440	478	410	106	391
Bermuda	14	18	2	0	3
Bolivia	6	7	5	1	1
Brazil	47	48	74	5	46
Bulgaria	42	43	63	20	45
Burma	0	1	1	0	2
Canada	2,200	2,390	2,278	597	2,421
Chile	7	8	7	2	6
China, People Rep.	0	0	0	3	8
Colombia	16	9	13	4	22
Congo	2	79	0	0	2
Costa Rica	1	8	0	1	9
Cuba	4	1	5	0	3
Cyprus	1	0	0	0	4
Czechoslovakia	141	172	127	34	103
Dahomey	1	0	0	0	0
Denmark	287	231	279	60	269
Dominican Republic	0	1	2	0	1
Ecuador	3	3	2	1	4
Egypt	6	3	5	0	1
El Salvador	4	3	4	1	4
Finland	186	185	201	44	203
France	3,395	3,239	3,070	694	3,158
Germany Dem. Rep.	0	0	23	8	43
Germany, Fed. Rep. of	9,026	8,644	8,312	2,133	8,896
Greece	21	30	17	6	16
Guatemala	3	3	4	3	8
Haiti	0	3	0	0	2
Honduras	1	2	2	2	0
Hong Kong	55	64	52	18	76
Hungary	111	129	144	28	128
Iceland	9	4	5	1	6
India	36	44	33	9	32
Indonesia	9	6	9	0	7
Iran	5	4	4	2	12
Ireland	41	39	50	12	53
Israel	186	140	193	38	184
Italy	1,240	1,192	1,211	319	1,271
Ivory Coast	1	0	1	0	0
Jamaica	3	3	4	1	6
Japan	9,461	8,908	9,319	2,438	10,211
Kenya	3	3	1	0	3
Korea, Rep. of	16	21	27	8	30
Kuwait	1	1	0	0	0
Lebanon	4	3	3	0	1
Liberia	0	1	0	0	0
Libya	0	0	0	1	0
Liechtenstein	19	19	24	5	15
Luxembourg	29	14	18	11	26
Malagasy	0	0	0	0	1
Malaysia	1	10	9	2	2
Mauritania	2	0	0	0	0
Mexico	113	128	136	35	83

9. United States Patent Applications Filed by Residents of Foreign Counties*—Continued

Country	1974	1975	1976	T.Q.*	1977
Monaco	7	9	11	3	7
Morocco	2	3	4	0	3
Netherlands	1,048	1,043	1,066	216	1,070
New Zealand	53	77	75	18	124
Nicaragua	4	2	0	2	2
Nigeria	3	3	5	0	2
Norway	154	155	167	30	172
Pakistan	1	3	0	0	0
Panama	6	5	1	2	2
Paraguay	2	0	0	0	1
Peru	7	13	4	3	5
Philippines	7	16	14	12	13
Poland	60	54	59	9	65
Portugal	12	8	13	5	5
Rhodesia	6	6	5	0	2
Romania	38	31	27	4	26
Saudi Arabia	3	5	1	0	1
Senegal	0	0	1	0	0
Singapore	1	6	7	1	9
South Africa	166	201	160	39	183
Soviet Union	764	720	673	159	634
Spain	217	179	186	41	176
Sri Lanka	0	2	2	1	1
Sudan	0	0	2	1	0
Sweden	1,475	1,455	1,466	303	1,347
Switzerland	2,048	2,174	2,137	533	2,016
Taiwan	79	117	121	44	171
Tanzania	0	0	1	0	0
Thailand	2	1	4	0	0
Trinidad & Tobago	2	4	6	3	7
Tunisia	0	1	1	1	1
Turkey	4	4	12	0	3
Uganda	1	0	0	0	0
United Kingdom	5,191	4,901	4,682	1,111	4,769
Uruguay	2	3	2	0	3
Venezuela	17	9	34	6	16
Viet Nam, Rep. of	1	0	2	0	1
Yugoslavia	13	10	21	6	15
Zambia	0	0	1	0	1
Total	39,541	38,442	38,081	9,495	39,663

* T.Q. data revised.

STATISTICAL DATA*

TRADEMARKS

10. Pending Trademark Applications as of September 30, 1977

Status	For Registration	For Renewal	Under Section 12(c)	Section 8 Affidavits
Pre-Examination	1,361	—	—	—
Under Examination:				
Awaiting action by examiner:				
First action	5,343	77	0	288
Amended actions	8,808	0	0	0
Awaiting action by others (i.e., applicant, on appeal, in adversary proceedings, clerical proceesing)	31,631	474	0	1,474
Total Under Examination	45,782	551	0	1,762
Total	47,143	551	0	1,762
Post-Examination (includes applications in all phases of publication and issue)	10,962	610	1	0
Total	58,105	1,161	1	1,762

* All years are fiscal years unless stated otherwise.

11. Summary of Trademark Examining Activities

Item	1976	T.Q.[1]	1977	Annual Average	1968–1977
Applications for registration filed	37,074	10,161	44,539	34,582	
Disposal of trademark applications:					
Applications maturing to registration	31,266	7,336	27,431	25,707	
Applications abandoned	7,986	2,937	9,055	7,884	
Certificates of registration issued:					
1946 act. principal register	27,286	6,556	24,256	22,752	
1946 act. supplemental register	816	175	770	880	
Total	28,102	6,731	25,026	23,632	
Renewal of registration:					
Applications filed	6,833	1,424	5,854	5,848	
Applications abandoned	121	10	18	72	
Registrations renewed	6,914	1,731	6,251	5,778	
Affidavits for benefits under Sec. 12(c):					
Affidavits filed	24	4	30	71	
Affidavits abandoned	0	0	3	1	
Published under Sec. 12(c)	56	20	21	97	
Affidavits, Sec. 8:					
Affidavits filed	15,665	3,329	13,463	13,644	
Affidavit disposal	12,376	2,768	12,796	12,875	
Pendency to first action (months)[2]	3.0	4.4	3.0	—	

[1] Transition Quarter, July 1, 1976 through September 30, 1976.
[2] Average pendency of trademark applications between filing and the examiner's first action.

12. Applications for Trademark Registrations, Renewals, and Section 12(c) Affidavits

Year	For Registration	For Renewal	For Benefits Under Section 12(c)	Affidavits Received Under Sec. 8	Year	For Registration	For Renewal	For Benefits Under Section 12(c)	Affidavits Received Under Sec. 8
1959	22,243	3,321	447	11,548	1969	31,268	6,267	90	13,890
1960	23,242	3,972	419	12,573	1970	33,807	6,329	59	14,283
1961	23,169	3,476	423	14,581	1971	32,803	6,189	76	12,263
1962	24,866	3,138	337	14,720	1972	33,741	5,980	46	13,256
1963	24,224	2,604	311	12,752	1973	*36,204	5,614	74	13,605
1964	25,574	2,824	261	12,055	1974	34,193	5,633	55	13,259
1965	26,657	3,049	308	13,923	1975	33,898	5,687	29	14,644
1966	28,438	3,695	518	13,705	1976	37,074	6,833	24	15,665
1967	27,628	3,844	341	11,156	T.Q.	10,161	1,424	4	3,329
1968	28,292	4,089	231	12,116	1977	44,539	5,854	30	13,463

* Revised.

13. Trademarks Issued, Renewed and Published Under Section 12(c)

Year	Issued	Re-newed	Published Under Sec. 12(c)	Year	Issued	Re-newed	Published Under Sec. 12(c)
1959	17,685	3,249	529	1969	20,306	5,442	182
1960	18,989	3,614	479	1970	21,974	6,370	103
1961	17,406	3,749	451	1971	21,686	6,380	112
1962	15,909	3,071	331	1972	21,062	5,836	56
1963	18,266	2,450	322	1973	25,432	5,398	69
1964	20,689	2,834	329	1974	24,838	5,984	54
1965	19,452	2,870	336	1975	27,324	5,474	25
1966	18,671	3,441	497	1976	28,102	6,914	56
1967	20,604	3,820	403	T.Q.	6,731	1,731	20
1968	20,385	3,726	290	1977	25,026	6,251	21

[1] Includes withdrawn numbers.

14. United States Trademark Applications and Registrations, Foreign Residents

Country	Applications			Registrations		
	1976	T.Q.	1977	1976	T.Q.	1977
Argentina	9	4	4	16	0	7
Australia	65	31	22	40	12	35
Austria	46	8	14	33	4	56
Bahamas	4	1	0	11	0	1
Belgium	25	6	5	28	5	14
Bermuda	1	0	1	2	0	2
Brazil	18	6	5	15	2	11
Bulgaria	0	0	0	0	1	0
Canada	473	127	181	295	45	263
Central African Rep.	1	0	0	0	0	2
Chile	2	0	0	1	0	0
China, Peoples Rep. of	8	0	2	4	0	3
Colombia	7	3	1	2	0	2
Costa Rica	1	1	1	0	0	0
Czechoslovakia	1	0	1	5	0	1
Denmark	44	12	15	36	6	31
Dominican Rep.	0	1	0	2	0	0
Ecuador	2	0	0	2	0	0
El Salvador	1	0	1	1	0	0
Finland	18	4	6	15	2	9
France	427	109	100	359	73	349
Germany, Democratic Rep. of	1	0	0	0	0	13
Germany, Federal Rep. of ...	523	140	166	387	88	345
Greece	11	8	3	7	0	5
Guatemala	3	0	1	1	0	0
Haiti	0	0	1	0	0	0
Honduras	1	0	0	0	0	0
Hong Kong	37	15	19	10	2	16

14. United States Trademark Applications and Registrations, Foreign Residents—Continued

Country	Applications			Registrations		
	1976	T.Q.	1977	1976	T.Q.	1977
Hungary	0	4	0	6	0	0
Iceland	2	0	2	1	0	0
India	6	0	1	1	0	2
Ireland	12	4	7	6	3	12
Israel	11	14	3	9	0	12
Italy	193	56	59	146	26	134
Jamaica	1	0	0	0	0	0
Japan	419	114	113	250	84	306
Kenya	0	0	2	0	0	0
Korea, Rep. of	10	3	5	7	0	2
Lebanon	0	0	0	1	0	0
Liberia	1	0	0	0	0	0
Liechtenstein	13	6	5	7	0	2
Luxembourg	1	1	6	2	0	0
Malaysia	0	0	1	0	0	0
Mexico	58	6	30	52	4	32
Monaco	6	0	0	1	0	0
Netherlands	63	12	34	58	13	52
New Zealand	10	4	7	7	2	7
Nicaragua	1	0	0	0	0	0
Norway	25	3	3	9	3	18
Pakistan	1	0	0	0	0	0
Panama	2	0	2	2	0	3
Peru	1	0	0	0	0	0
Philippines	2	0	5	3	0	0
Poland	1	2	2	4	1	0
Portugal	7	3	1	14	5	4
Rhodesia	0	1	0	0	0	0
Romania	0	0	1	0	1	0
Singapore	0	3	9	0	0	0
South Africa	15	8	8	14	0	6
Soviet Union	3	3	3	2	1	0
Spain	176	22	36	74	23	112
Sweden	103	25	28	94	14	63
Switzerland	160	34	50	126	27	131
Taiwan	3	0	1	0	0	0
Thailand	0	3	2	0	0	0
United Kingdom	472	149	152	314	61	365
Uruguay	0	0	1	0	1	0
Venezuela	0	0	3	2	0	1
Viet Nam	0	0	0	1	0	0
Yugoslavia	5	0	1	2	0	1
Total	3,512	956	1,132	2,488	509	2,430

STATISTICAL DATA*

GENERAL

15. Actions on Petitions to Commissioner

	1977
Patent Cases:	
Acceptance of amendments filed after payment of issue fee	53
Acceptance of late assignments	19
Acceptance of late issue fees	645
Acceptance of late priority papers	45
Access	44
Certificates of Correction	9,026
Deferment of issue	158
Filing date	217
Interference	100
Make special	363
New notice of allowance	44
Public use	0
Reopen prosecution under Rule 198	0
Restriction	95
Revivals	1,811
Second extensions of time	11,185
Supervisory authority	557
Withdrawals of attorney	2,152
Withdrawals from issue	98
Total	26,612
Trademark Cases:	
Revive and Make Special	319
Supervisory Authority (2.146(a)(3))	11
Decisions by Examiners	3
Extensions of Time	7
Requesting Recordation	14
Interferences	3
Acceptance of late filed papers (excl. Sec. 8 papers)	20
Acceptance of late filed fees (excl. Sec. 8 fees)	17
Section 8 or 15	91
Accord Applications a Filing Date	7
Miscellaneous	14
Total	506
Pending Patent Petitions Awaiting Action	611
Pending Trademark Petitions Awaiting Action	74

* All years are fiscal years unless stated otherwise.

16. Summary of Contested Cases in Patent and Trademark Office During 1977

Patent Cases before the Board of Appeals:		
Pending September 30, 1976:		
Appeals (examiner's answer)	4,155	
Reconsideration	55	4,210
Filed October 1, 1976–September 30, 1977		
Appeals (examiner's answer)	3,600	
Reconsideration	449	4,049
Total		8,259
Disposals:		
Examiner affirmed	2,356	
Examiner affirmed-in-part	355	
Examiner reversed	824	
Dismissed	4	
Suspended	1	
Withdrawn	315	[1] 4,298
Pending September 30, 1977		3,961

Cases before the Board of Patent Interferences:	
Pending September 30, 1976	671
Filed October 1, 1976–Sept. 30, 1977 (inter parte cases)	312
Total	983
Disposals	370
Pending September 30, 1977	613
Awaiting setting of final hearing	9
Awaiting final decision	43
Set for final hearing	14

Cases before the Trademark Trial and Appeal Board:

	Ex Parte	Cancel	Concur. Use	Inter Partes Interfer.	Opposi-tions	Total
Pending Sept. 30, 1976	288	440	26	3	1676	2433
Filed 10/1/76–9/30/77						
Ex parte appeals	231					231
Inter partes cases	—	339	12	0	1243	1594
Total	519	779	38	3	2919	4258
Disposals	245	331	14	2	1170	1762
Pending Sept. 30, 1977	274	448	24	1	1749	2496

[1] Reconsiderations included: 443

17. Cases in Litigation (Courts) in 1977

	Administrative Review	Patent	Trademark	Total
Supreme Court of the United States—Petitions for writ of certiorari:				
Pending Oct. 1, 1976	0	1	0	1
Filed Oct. 1, 1976–Sept. 30, 1977	1	4	0	5
Total	1	5	0	6
Denied	0	3	0	3
Granted	0	0	0	0
Total	0	3	0	3
Pending Sept. 30, 1977	1	2	0	3
United States Court of Appeals—District of Columbia Circuit:				
Cases pending Oct 1, 1976	3	2	0	5
Filed Oct. 1, 1976–Sept. 30, 1977	1	3	0	4
Total	4	5	0	9
Cases disposed of:				
Affirmed	0	0	0	0
Dismissed	2	0	0	2
Reversed	0	1	0	1
Total	2	1	0	3
Pending Sept. 30, 1977	2	4	0	6
United States District Court for the District of Columbia:				
Pending Oct 1, 1976	9	36	2	47
Filed Oct. 1, 1976–Sept. 30, 1977	7	10	0	17
Total	16	46	2	64
Cases disposed of:				
Affirmed	1	5	0	6
Reversed	3	1	0	4
Dismissed on				
Plantiff's motion	0	1	0	1
Defendant's motion	2	1	0	3
Stipulation of counsel	1	11	1	13
By Court	0	0	0	0
Total	7	19	1	27
Pending Sept. 30, 1977	9	27	1	37

17. Cases in Litigation (Courts) in 1977—(Continued)

Notices of appeals to U.S. Court of Customs and Patent Appeals Received Oct. 1, 1976–Sept. 30, 1977:

Ex parte patents and trademarks	103=(13 not perfected)
Inter partes patents	22=(4 not perfected)
Inter partes trademarks	25=(6 not perfected)

United States Court of Customs and Patent Appeals

	Ex Parte		Inter Partes		
	Patent	Trademark	Patent	Trademark	Total
Cases pending Oct. 1, 1976	106	7	16	21	150
Filed Oct. 1, 1976–Sept. 30, 1977	92	7	14	21	134
Total	198	14	30	42	284
Cases disposed of:					
Affirmed	79	3	10	17	109
Affirmed-in-part	6	0	0	1	7
Reversed	19	3	4	2	28
Remanded	1	0	0	0	1
Writ of mandamus denied	5	0	0	0	5
Dismissed:					
On appellant's motion	17	0	4	5	26
Appellees motion	0	0	0	0	0
Want of prosecution	0	0	0	0	0
Joint motion	0	0	0	0	0
Total	127	6	18	25	176
Pending Sept. 30, 1977	71	8	12	17	108

18. Litigation Report, Other Jurisdictions (Cases Reported)

Month	Patent suits				Trademark suits			
	Filed	Pat's Involved	Decs.	Pat's Involved	Filed	TM's Involved	Decs.	TM's Involved
October 1976	44	59	15	21	11	11	20	39
November	53	89	29	48	45	147	8	2
December	36	88	33	36	36	199	16	86
January	47	76	23	33	22	42	12	45
February	41	76	39	45	42	111	16	33
March	80	109	29	50	53	116	15	73
April	45	58	16	22	41	103	8	19
May	45	102	19	36	29	90	17	152
June	62	105	38	52	34	155	15	39
July	53	113	14	33	36	132	8	14
August	59	175	48	65	59	274	18	37
September 1977	59	78	18	29	35	112	23	40
1977 TOTAL	624	1128	321	470	443	1492	176	579

19. Summary of Patent & Trademark Office Services Furnished for Fees or Without Charge to the Public and Government Agencies

Item or service provided	supplied in 77
Prints furnished: Manuscripts, patents, publications, etc. (in thousands)	14,783
Certificates prepared (in thousands)	88
Assignments:	
Abstracts of title and title searches	1,033
Title reports	16,373
Issue searches	64,243
Documents recorded	71,399
Patents and trademarks: (in thousands)	
Orders	3,408
Foreign exchange	3,195
Library subscriptions	1,225
Archives	204
Total	8,032
Drawings and corrections	15,820

20. Income From Fees

(In Thousands of Dollars)

	1974	1975	1976	T.Q.	1977
Patent issue fee, including printing	$11,058	$10,650	$10,982	$2,719	$10,063
Patent application filing fee, including extra claims	9,018	8,749	8,762	2,332	9,023
Printed copies, U.S. Patents, Designs and Trademarks	2,213	2,102	2,082	488	1,879
Recording assignments	1,669	1,581	1,582	420	1,620
Trademark application filing fee	1,237	1,204	1,348	400	1,605
Reproduction of records	1,097	1,128	1,198	340	1,470
Appeals, including briefs	966	886	798	199	772
Making, mounting, correction, and comparison of drawings	214	252	232	63	242
Trademark renewal filing fee	143	153	180	42	157
Design application filing fee	111	115	135	36	147
Filing of affidavits pertaining to use or non-use of trademarks	142	139	141	38	142
Special service on orders	189	172	147	39	161
Certification of records	118	109	104	29	117
Design issue fee	114	119	135	37	118
Disclosure documents filed	132	87	84	26	106
Trademark oppositions and cancellations	45	46	51	13	49
Subscription service for copies	33	34	29	22	1
Petition fees	44	47	44	11	43
Attorney registrations and certificates	40	34	30	12	35
Patent reissue filing fee, including extra claims	38	39	42	10	49
Certificates of correction	23	28	37	10	37
Patent and Trademark disclaimers	22	25	26	7	29
Other fees[1]	57	62	71	23	115
Total	$28,822	$27,761	28,240	$7,316	$27,980

[1] Approximately 35 types of fees amounting to less than $15,000 for each type.

21. Operating Cost

(In Thousands of Dollars)

	1974	1975	1976	T.Q.	1977
Examination of patent applications ..	$42,161	$45,570	$48,454	$12,101	$51,846
Examination of trademark applications	3,671	4,090	4,000*	983	4,115
Collection, assembly and dissemination of technical and legal patent and trademark information	27,259	28,469	30,610	8,337	31,545
Total	$73,091	$78,129	$83,064	$21,421	$87,506
Personnel compensation	$49,878	$52,414	$54,910	$14,194	$59,960
Personnel benefits	4,064	4,574	5,121	1,324	5,463
Printing and reproduction	13,847	12,201	12,762	3,267	10,376
Other costs	$ 5,302	$ 8,940	$10,271	$ 2,636	$11,707
Total	$73,091	$78,129	$83,064	$21,421	$87,506

* Decrease from 1975 due to shift of trademark printing costs to (Collection, assembly . . . etc.).

22. End of Year Employement [1]

	1974	1975	1976	T.Q.	1977
Examination of patent applications	1,964	1,899	1,829	1,786	1,788
Examination of trademark applications	179	182	173	173	167
Collection, asesmbly and dissemination of technical and legal patent and trademark information ...	944	926	953	919	867
Total	3,087	3,007	2,955	2,878	2,822
Patent professional	1,270	1,118	1,047	1,038	1,063
Trademark professional	70	73	71	73	72
All other	1,747	1,816	1,837	1,767	1,687
Total	3,087	3,007	2,955	2,878	2,822

[1] Total paid employment, including full time permanent and other.

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